Comparison of struct and class

struct

```
struct Time
{
   int hour = 0;
   int minute = 0;
   int second = 0;
};

void set( Time&, int, int, int );
void print( Time t );
```

```
class Time
public:
   int hour:
   int minute;
   int second:
   Time(); // constructor
   void set( int, int, int );
   void print();
```

mai n()

struct

```
int main()
{
   Time t;
   print( t );
   set(t, 13, 27, 6);
   print( t );
```

```
int main()
{
   Time t;
   t. pri nt();
   t. set(13, 27, 6);
   t. pri nt();
Ti me:: Ti me()
   hour = minute = second = 0;
```

setTi me

```
struct
```

```
void set( Time &t, int h, int m, int s )
{
    t. hour = ( h >= 0 && h < 24 ) ? h : 0;
    t. minute = ( m >= 0 && m < 60 ) ? m : 0;
    t. second = ( s >= 0 && s < 60 ) ? s : 0;
}</pre>
```

```
class
```

```
void Time::set( int h, int m, int s )
{
   hour = ( h >= 0 && h < 24 ) ? h : 0;
   minute = ( m >= 0 && m < 60 ) ? m : 0;
   second = ( s >= 0 && s < 60 ) ? s : 0;
}</pre>
```

pri nt

struct

```
t
```

```
int main()
{
    Time t;
    t. print();
    t. set( 13, 27, 6 );
    t. print();
}
```

```
hour minute second
0 0 0

Time set print
```

```
Ti me::Ti me()
{
    hour = mi nute = second = 0;
}
```

```
void Time::set( int h, int m, int s )
{
  hour = ( h >= 0 && h < 24 ) ? h : 0;
  minute = ( m >= 0 && m < 60 ) ? m : 0;
  second = ( s >= 0 && s < 60 ) ? s : 0;
}</pre>
```

```
t
```

```
int main()
{
    Time t;
    t. print();
    t. set( 13, 27, 6 );
    t. print();
}
```

```
hour minute second
0 0 0

Time set print
```

```
Ti me::Ti me()
{
    hour = mi nute = second = 0;
}
```

```
00: 00: 00
```

```
void Time::set( int h, int m, int s )
{
   hour = ( h >= 0 && h < 24 ) ? h : 0;
   minute = ( m >= 0 && m < 60 ) ? m : 0;
   second = ( s >= 0 && s < 60 ) ? s : 0;
}</pre>
```

```
t
```

```
int main()
{
    Time t;
    t.print();
    t.set( 13, 27, 6 );
    t.print();
}
```

```
hour minute second
13 27 6

Time set print
```

```
Ti me::Ti me()
{
    hour = mi nute = second = 0;
}
```

```
00: 00: 00
```

```
void Time::set( int h, int m, int s )
{
  hour = ( h >= 0 && h < 24 ) ? h : 0;
  minute = ( m >= 0 && m < 60 ) ? m : 0;
  second = ( s >= 0 && s < 60 ) ? s : 0;
}</pre>
```

```
t
```

```
int main()
{
    Time t;
    t. print();
    t. set( 13, 27, 6 );
    t. print();
}
```

```
hour minute second
13 27 6

Time set print
```

```
Ti me::Ti me()
{
    hour = mi nute = second = 0;
}
```

```
00: 00: 00
13: 27: 06
```

```
void Time::set( int h, int m, int s )
{
   hour = ( h >= 0 && h < 24 ) ? h : 0;
   minute = ( m >= 0 && m < 60 ) ? m : 0;
   second = ( s >= 0 && s < 60 ) ? s : 0;
}</pre>
```

pri nt

struct